import org.junit.jupiter.api.Test;

import org.junit.jupiter.api.extension.ExtendWith;

import java.lang.annotation.ElementType;

import java.lang.annotation.Retention;

import java.lang.annotation.RetentionPolicy;

import java.lang.annotation.Target;

// Meta-annotation composed of two annotations

@Target({ElementType.TYPE, ElementType.METHOD})

@Retention(RetentionPolicy.RUNTIME)

@ExtendWith(MyExtension.class)

@Test

public @interface MyTestAnnotation {

}

// Custom extension

class MyExtension implements org.junit.jupiter.api.extension.TestExecutionExceptionHandler {

@Override

public void handleTestExecutionException(ExtensionContext context, Throwable throwable) throws Throwable {

System.out.println("Handling exception: " + throwable.getMessage());

}

}

// Test class using the meta-annotation

@MyTestAnnotation

public class MyJUnitMetaAnnotationDemo {

@Test

void testWithException() {

throw new RuntimeException("Custom exception in the test method");

}

@Test

void testWithoutException() {

System.out.println("Test without exception");

}

}